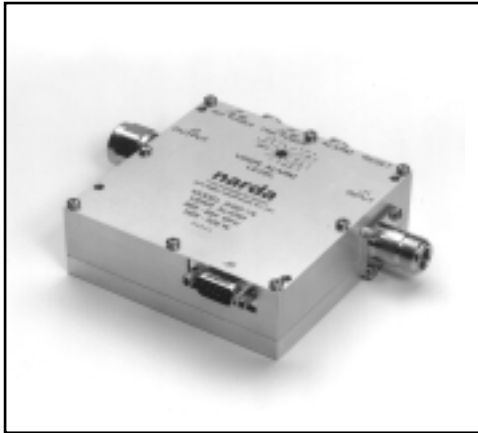


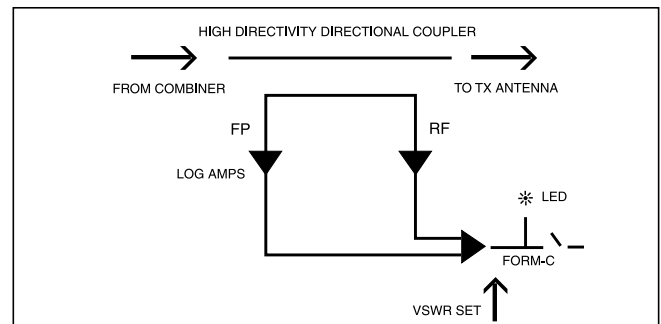
## RF Monitoring Products

**NARDA 8460 / 8480 SERIES****LOW COST VSWR ALARMS**

- Closes Form-C Relay when VSWR Exceeds Preset Level
- VSWR Setting Adjustment
- LED Alarm and Reset Button
- Forward Power and Reverse Coupler Ports
- Cellular and PCS Frequencies

**DESCRIPTION**

The Series 8460 / 8480 VSWR Alarms provide a cost-effective solution for service providers who only need a Form-C relay closure when a Tx VSWR failure occurs. A rough schematic of these units is shown at right. A high directivity coupler samples the forward and reflected power and calculates the VSWR. This value is compared to a stored value and if it exceeds that value the Form-C relay closes and the LED lights. The VSWR alarm level is set with a screw driver adjustment that is calibrated in 0.2 VSWR units. Forward and reverse power sampling ports are also provided (not shown) for the user's convenience. Models are available at both cellular and PCS frequencies.



VSWR ALARM BLOCK DIAGRAM

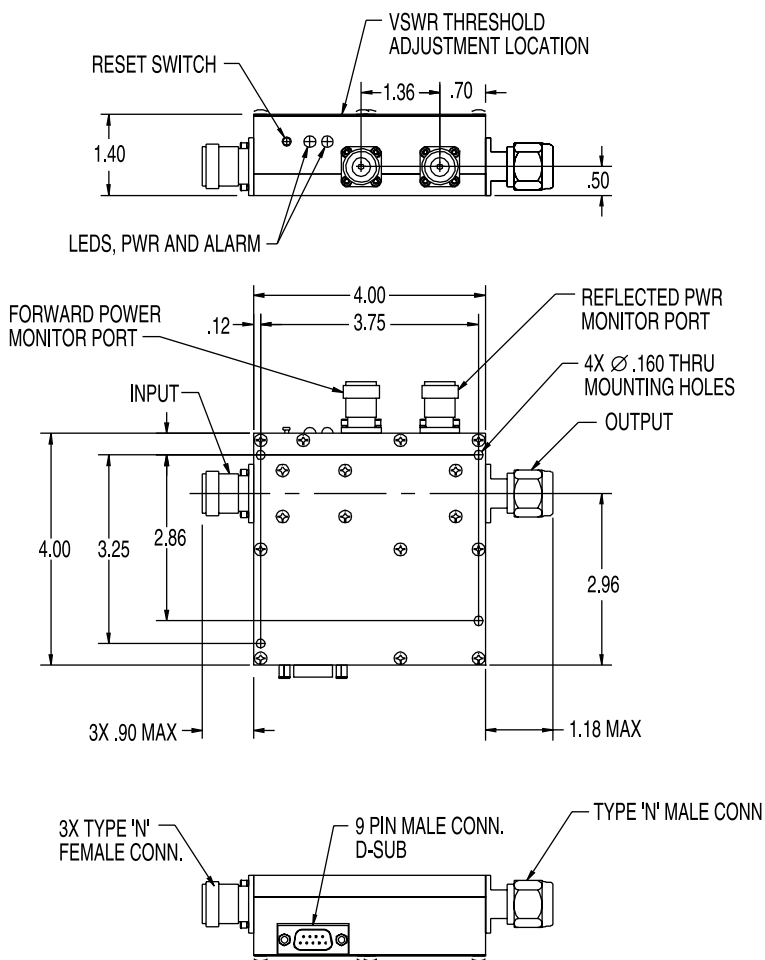
MODEL	8460-N1	8480LP-N1
FREQUENCY RANGE	869 - 994 MHz	1910 - 1990 MHz
INSERTION LOSS	.2 dB MAX	
IMPEDANCE	50 OHMS	
VSWR	1.10:1 MAX	1.15:1 MAX
DIRECTIVITY	25 dB TYPICAL	
OPERATING AVERAGE POWER RANGE	15 TO 500 WATTS	1.6 TO 50 WATTS
SURVIVAL POWER	600 W AVERAGE 2.3 kW PEAK	
VSWR ALARM THRESHOLD RANGE	1.50:1 TO 2.50:1	
VSWR THRESHOLD SETTING RESOLUTION	STEPS OF .2 VSWR UNITS	
VSWR ALARM ACCURACY*	VSWR	UNCERTAINTY LIMITS
	1.5:1	+0.30 -2.25
	2.0:1	+0.40 -0.30
	2.5:1	+0.60 -0.40

## NOTES:

\*Includes effects of coupler directivity, mainline VSWR of unit, and power measurement accuracy.

# RF Monitoring Products

## OUTLINE DRAWINGS



TOLERANCE: .XXX ±.010  
.XX ±.020